Ka-Band Earth Station – Copper Hill, VA Frequency Coordination Report 28 GHz



Prepared on Behalf of ViaSat, Inc.

July 31, 2021





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1. Summary of Results

On behalf of ViaSat. Inc., Comsearch issued coordination notice under Section 25.203(c) and Section 25.136(a)(4) of the FCC's rules for all existing and proposed terrestrial licenses within the coordination contours of their proposed Ka-Band earth station in Copper Hill-VA, which will transmit at 28 GHz¹. Prior-notification emails were sent to the licensees and a copy of the notification data is provided in section four of this report. The earth station coordination was finalized on July 29, 2021.

No objections were received from any of the incumbent 28 GHz licensees.

2. 28 GHz UMFUS Coordination

All 28 GHz UMFUS licensees within the coordination distance of the proposed earth station were identified. The proposed earth station will operate on frequencies that overlap Channel L1 & L2 of the UMFUS service. The total frequency allocation for Channels L1 & L2 of the UMFUS spectrum appears below.

Channel: L1 27.500 - 27.925 GHz

L2 27.925 - 28.350 GHz

Licensee	Authorized Geographic Area
Verizon	Market Based

No objections were received from the UMFUS incumbents within coordination distance.

 $^{^{1}}$ The proposed earth station will operate in the 27.5 – 29.1 GHz & 29.5 – 30.0 GHz portion of the KaBand.



3. Earth Station Coordination Data

This section presents the data pertinent to the proposed Ka-Band earth station in Copper Hill, VA. This data was circulated to all incumbent licensees in the shared 28 GHz frequency ranges.

Date: Job Number: Administrative Informa	2106	9/2021 629COMSNR06		
Administrative Informa		S29COMSNR06		
	tion			
Status		INEER PROPOSAL		
Call Sign				
Licensee Code		VIASAT ViaSat, Inc		
		PER HILL, VA		
Venue Name Latitude (NAD 83)	37° N	17' 3.54" N		
Longitude (NAD 83)		7 57.48" W		
Climate Zone	Α			
Rain Zone	2	20 - 10010 0 0		
Ground Elevation (AMSL) 807		39 m / 2648.9 ft		
Link Information				
Satellite Type Mode		Geostationary		
Modulation		TO - Transmit-Only Digital		
Satellite Arc		78° W to 91° West Longitude		
Azimuth Range		176.5° to 197.6°		
Corresponding Elevation A	_			
		1 / 3.9 ft		
Antenna Information		Transmit - VES000		
Manufacturer Model		VIA5AT INC. 13138XX		
Gain / Diameter		52.0 dBi / 1.8 m		
3-dB / 15-dB Beamwidth		0.40° / 0.80°		
	BW/4 kHz)	42.5		
(6	BW/MHz)	-18.5		
Maximum EIRP (d	BW/4 kHz)	9.5		
(c	BW/MHz)	33.5		
	ig Term	-141.0 dBW/4 kHz 20%		
	ort Term	-118.0 dBW/4 kHz 0.0025%		
Frequency Information		Transmit 28.0 GHz		
Emission / Frequency Range (Mi	12)	464MG7D / 27500.0 - 29500.0		
Coordination Distance		3 E km / 3 40 mi		
Coordination Distance		3.5 km / 2.18 mi		



4. Contact Information

For questions or information regarding the 28 GHz Frequency Coordination Report, please contact:

Contact person: Naveen Raghavan
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